BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Estimate Cost Rs. 2000000.00

Sl No	Description of item	Unit		L	B	D	Qty	Rate	Amount
1	KSRRB M200-12.3 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. C. Prestressed / Reinforced cement concrete grade M-20 & above. MORTH Specification No. 202 **Page No. 137 / Item No. 18.19, PWD SR 2016-17**	cum							
	Roof Concrete		1	12.20	9.20	0.15	16.84		
	Lintel Long Walls		2	12.20	0.23	0.15	0.84		
	Short Walls		3	8.75	0.23	0.15	0.91		
							18.58	1103.76	**20512.00**
	Basic Rate	1022.00							
	Area Weightage @ 8%	81.76							
	Total	**1103.76**							
2	KSRRB M200-14.2 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar. MORTH Specification No. 202 **Page No. 137 / Item No. 18.23, PWD SR 2016-17**	cum							
	Long Walls		2	12.20	0.23	2.85	15.99		
	Short Walls		2	8.75	0.23	2.85	11.47		
							27.47	263.52	**7238.00**
	Basic Rate	244.00							
	Area Weightage @ 8%	19.52							
	Total	**263.52**							
3	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 5 / Item No. 2.3 of PWD SR 2016-17**	Cum							
	All Round Wall		1	41.90	0.90	0.90	33.94		
	For Columns		16	1.50	1.50	1.50	54.00		

	Description of item	Unit		L	B	D	Qty	Rate	Amount
	Basic Rate	189.00					87.94	204.12	17950.00
	Area Weightage @ 8%	15.12							
	Total	**204.12**							
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **In foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	All Round Wall		1	41.90	0.90	0.15	5.66		
	Columns		12	1.50	1.50	0.15	4.05		
	Flooring								
	Living Hall		12	1.50	0.90	0.15	2.43		
	Basic Rate	4867.00					12.14	5256.36	63794.00
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	All Round Wall		1	41.90	0.75	0.75	23.57		
	Deduction of Columns		12	1.50	0.75	0.75	-10.13		
	Basic Rate	4187.00					13.44	4521.96	60792.00
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	All Round Wall		1	41.90	0.45	0.45	8.48		
	Deduction of Columns		12	0.45	0.20	0.45	-0.49		
	Basic Rate	5005.00					8.00	5405.40	43236.00
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							

	Description of item	Unit		L	B	D	Qty	Rate	Amount
	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	Columns Footing		16	1.20	1.20	0.60	13.82		
	Columns Rising		16	0.20	0.45	3.60	5.18		
	Plinth		1	41.90	0.20	0.30	2.51		
	Lintel		1	41.90	0.20	0.15	1.26		
	Beams		3	9.20	0.20	0.45	2.48		
	Allround Beam		1	41.90	0.20	0.45	3.77		
	Roof Slab		1	12.20	9.20	0.15	16.84		
	Basic Rate	5879.00					**45.87**	6349.32	**291243.00**
	Area Weightage @ 8%	470.32							
	Total	**6349.32**							
8	KSRB 4.2.11 : Providing and laying in position **reinforced cement concrete of design mix M20** with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391cum, with superplastisiser @0.225lts, machine mixed, well compacted for **plain chajja of 8.5 cms.** average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 14 / Item No. 4.20, PWD SR 2016-17**	Sqm							
	Roof Slab		17	1.50	0.60		15.30		
	Basic Rate	514.00					**61.17**	555.12	**33957.00**
	Area Weightage @ 8%	41.12							
	Total	**555.12**							
9	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, **Page No. 6 / Item No. 2.10 / PWD SR 2016-17**	Cum							
				Qty Vide Item No. 1			87.94		
	Basic Rate	127.00					**87.94**	137.16	**12062.00**
	Area Weightage @ 8%	10.16							

	Description of item	Unit		L	B	D	Qty	Rate	Amount
	Total	**137.16**							
10	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
	All Round Wall		2	41.90		3.00	251.40		
	Parapet		2	12.20		0.30	7.32		
			2	8.80		0.30	5.28		
	Steps		4	15.00		0.20	12.00		
			3	15.00		0.20	9.00		
			2	15.00		0.20	6.00		
			1	15.00		0.20	3.00		
							294.00		
	Deduct for Openings								
	ED		1	1.20		2.10	2.52		
	Windows		13	1.50		1.20	23.40		
	Lintel		1	41.90		0.15	6.29		
	Alround beam		1	41.90		0.45	18.86		
							-51.06		
	Basic Rate	831.00					**242.94**	897.48	**218034.00**
	Area Weightage @ 8%	66.48							
	Total	**897.48**							
11	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
	110 Kg / Cum			0.110	45.87		5.05		
	7 Kgs/ Sqm			0.007	61.17		0.43		
	Basic Rate	56050.00					**5.47**	60534.00	**331356.00**
	Area Weightage @ 8%	4484.00							
	Total	**60534.00**							

No	Description of item	Unit		L	B	D	Qty	Rate	Amount
12	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat	Sqm							
	Roof Slab		1	12.20	9.20		112.24		
	Existing Building		2	20.80	6.85		284.62		
	Basic Rate	904.00					**396.86**	976.32	**387460.00**
	Area Weightage @ 8%	72.32							
	Total	**976.32**							
13	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114, Item No. 15.21 of PWD SR 2016-17**	Sqm							
	Room		1	11.80	8.80		103.84		
	Basic Rate	193.00					**103.84**	235.44	**24446.00**
	Add for Lime Rendering	25.00							
		218.00							
	Area Weightage @ 8%	17.44							
	Total	**235.44**							
14	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.16, PWD SR 2016-17**	Sqm							
	Living hall		2	11.80		3.00	70.80		

	Description of item	Unit		L	B	D	Qty	Rate	Amount
			2	8.80		3.00	52.80		
							123.60		
	Deduction ED		0.5x1	1.20		2.10	1.26		
	Windows		0.5x13	1.50		1.20	11.70		
							-12.96		
	Basic Rate	221.00					**110.64**	264.60	**29275.00**
	Add for Lime Rendering	24.00							
	Total	**245.00**							
	Area Weightage @ 8%	19.60							
	Total	**264.60**							
15	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.17, PWD SR 2016-17**	Sqm							
			2	12.20		3.90	95.16		
			2	9.20		3.90	71.76		
							166.92		
	Deduction ED		0.5x1	1.20		2.10	1.26		
	Windows		0.5x13	1.50		1.20	11.70		
							-12.96		
	Basic Rate	198.00					**153.96**	213.84	**32923.00**
	Area Weightage @ 8%	15.84							
	Total	**213.84**							
16	KSRB 14.10-1: Flooring with 25mm to 40mm thick polished **tandur blue stone slabs** using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, , including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS **Page No. 103 / Item No. 14.15, PWD SR 2016-17**	Sqm							
	Room		1	11.80	8.80		103.84		
	Skerting		2	11.80	0.10		2.36		
			2	8.80	0.10		1.76		
	Basic Rate	1121.00					**107.96**	1210.68	**130705.00**
	Area Weightage @ 8%	89.68							
	Total	**1210.68**							

	Description of item	Unit		L	B	D	Qty	Rate	Amount
17	KSRB 4-6.10 :Providing and removing **centering, shuttering, strutting, propping** etc., for **chajjas, corbels** etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.37, PWD SR 2016-17**	Sqm							
			13	1.50	0.60		11.70		
	Basic Rate	270.00					**11.70**	291.60	**3412.00**
	Area Weightage @ 8%	21.60							
	Total	**291.60**							
18	KSRB 4-6.5 : Providing and removing **centering, shuttering, strutting, propping** etc., for **columns, pillars, post and struts**, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.32, PWD SR 2016-17**	Sqm							
			16	4.80		0.60	46.08		
			16	1.23		3.60	70.85		
	Basic Rate	366.00					**116.93**	395.28	**46219.00**
	Area Weightage @ 8%	29.28							
	Total	**395.28**							
19	KSRB 4-6.3 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.30 PWD SR 2016-17**	Sqm							
			1	12.20	8.80		107.36		
	Basic Rate	384.00					**107.36**	414.72	**44524.00**
	Area Weightage @ 8%	30.72							
	Total	**414.72**							
20	KSRB 4-6.7 :Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for sides and soffits of **beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth** including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.34, PWD SR 2016-17**	Sqm							
	Allround Lintel		2	41.90		0.30	25.14		
	Allround Plinth		2	41.90		0.15	12.57		
			2	41.90		0.45	37.71		
			3	9.20		1.10	30.36		

Sl No	Description of item	Unit		L	B	D	Qty	Rate	Amount
	Basic Rate	256.00					105.78	276.48	29246.00
	Area Weightage @ 8%	20.48							
	Total	**276.48**							
21	KSRB 7.3 : Providing and fixing 1mm thick **M.S. sheet garage door** with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. **Double leaf door of size 2.4x2.4m**. Specification No. KBS 7.9 / 7.12. **Page No. 31 / Item No. 7.3 / PWD SR 2016-17**	Sqm							
	Horizontal		1	1.20		2.10	2.52		
	Basic Rate	2332.00					2.52	2471.92	6229.00
	Area Weightage @ 6%	139.92							
	Total	2471.92							
22	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 **steel glazed windows and ventilators** side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinerycomplete as mixed with proprietary water proofing compound and finally finishing	Sqm							
	Windows		13	1.20		1.50	23.40		
	Basic Rate	3530.00					23.40	3741.80	87558.00
	Area Weightage @ 6%	211.80							
	Total	3741.80							

	Description of item	Unit		L	B	D	Qty	Rate	Amount
23	KSRB 15-14.1 : Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 117 / Item No. 15.49.1, PWD SR 2016-17**	Sqm							
				Qty Vide Item No.10+11			214.48		
	Basic Rate	71.00					**214.48**	76.68	**16446.00**
	Area Weightage @ 8%	5.68							
	Total	**76.68**							
24	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. **Page No. 117 / Item No. 15.53.2, SR 2016-17.**	Sqm							
				Qty Vide Item No.12			153.96		
	Basic Rate	84.00					**153.96**	90.72	**13967.00**
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
25	KSRB 8.6-5 : Providing and fixing on wall surface 2.5 kg / sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. **Page No. 47 / Item No. 8.16, PWD SR 2016-17**	m							
	All Round Wall		6	3.00			**18.00**	429.84	**7737.00**
	Basic Rate	398.00							
	Area Weightage @ 8%	31.84							
	Total	**429.84**							
	PART - 2 ELECTRICAL AND FITTINGS								

Sl No	Description of item	Unit		L	B	D	Qty	Rate	Amount
26	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet. GROUP A b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch **(Page No. 05, Item No.2.1 KPWD SR 2014-15**	Point							
			3				**3**	245.00	**735.00**
27	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.5) 4"x4"x3" (101x101x76mm) **(Page No. 03, Item No. 1.6) KPWD SR 2014-15**	Each							
			2				**2**	68.00	**136.00**
28	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. **(Page No. 17, Item No. 3.9) KPWD SR 2014-15**	SqCM							
							844	0.25	**211.00**
29	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall **(Page No. 03, Item No.1.7.1) KPWD SR 2014-15**	Mtr							
			1	60.00			**60**	21.00	**1260.00**
30	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. **(Page No. 02, Item No. 1.3.1) KPWD SR 2014-15**	Mtr							
			1	60.00			**60**	56.00	**3360.00**
31	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps. **(Page No. 20, Item No. 4.2) KPWD SR 2014-15**	Each							
			1				**1**	88.00	**88.00**

	Description of item	Unit		L	B	D	Qty	Rate	Amount
32	Supplying pattl type fluorescent tube light fitting of 2' - suitable for 14 watts fluorescent tube fitting, made out of M.S Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp. **(Page No. 20, Item No. 4.5) KPWD SR 2014-15**	Each							
			1				1	591.00	**591.00**
33	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm **(Page No. 06, Item No. 2.5.2) KPWD SR 2014-15**	Mtr							
			1	15.00			**15**	18.60	**279.00**
34	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 60/100 watts 230V GLS lamp. **(Page No. 20, Item No. 4.3) KPWD SR 2014-15**	Each							
			4				**4**	747.00	**2988.00**
35	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia **(Page No. 55, Item No. 7.1) KPWD SR 2014-15**	No							
			1				**1**	2727.00	**2727.00**
36	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			1	25.00			**25.00**	140.40	**3510.00**
37	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			1	25.00			**25.00**	10.80	**270.00**

	Description of item	Unit		L	B	D	Qty	Rate	Amount
	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete For Cutting Road Surface .(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
			1	20.00			**20.00**	85.00	**1700.00**
39	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 40mm dia GI pipe **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
			1	4.00			**4.00**	345.00	**1380.00**
40	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers 16Sqmm etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
			1				**1.00**	280.00	**280.00**
	Sub Total								**1979838.00**
	Third party Inspection Charges @ 1%								**19798.00**
	Miscesalaneous and unforeseen Charges	L/S							**364.00**
								Total	**2000000.00**

Rupees Twenty Lakh(s) Only

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17 and KPWD SR 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For ....20-00 lakh Rs
Head of A/C.....P.1771
CER NO :.....107..... Dt:.. 12-01-17

TA

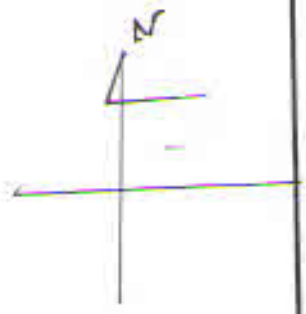
CE (YNK)

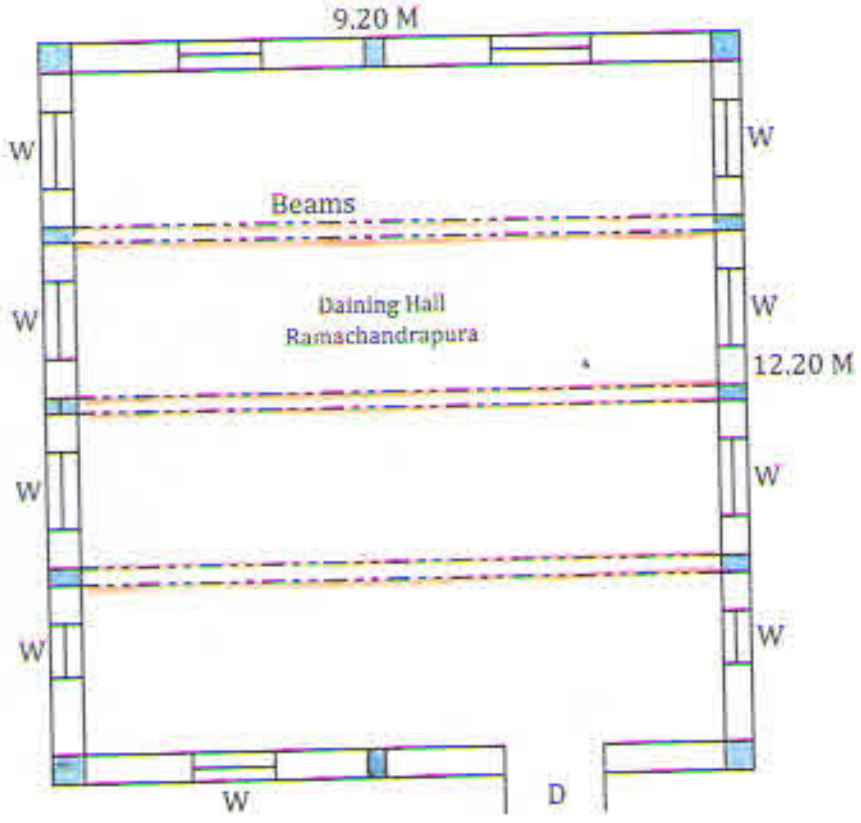
TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/C P-1771
Div. Ref. 134/16-17 12/01/17

AE

EE(BTP)

me of Work: Improvements to Ramachandrapura and Doddabommasandra Govt School in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.





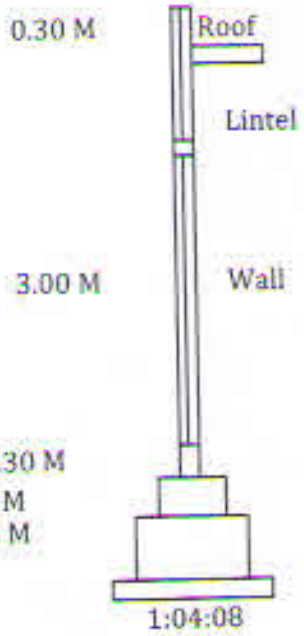
INDEX:

D Door 1.20x2.10 M
W Windows 1.50 x 1.20 M

Beams:

0.20 x 0.45 M

Columns
0.20 x 0.45 M



Plinth Beam 0.30 M
SSM Base 0.45 M
SSM Foun 0.75 M

1:04:08

Cross Section

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division